

Johann Vollmann · Marjana Vasiljević · Leopold Rittler ·
Jegor Miladinović · Donal Murphy-Bokern

Editors

Soybean Research for Sustainable Development

Abstracts of the World Soybean Research Conference 11 (WSRC 11)
18-23 June 2023
Vienna, Austria



University of Natural Resources and Life Sciences, Vienna, Austria

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Aggressiveness among isolates of *Diaporthe caulivora*, the main cause of stem canker of soybean in Uruguay

Jhon Larzábal¹, Victoria Bonnacarrére, Gastón Quero, Marcelo Rodríguez, Dahiana Bentos, Silvina Stewart

¹INIA, Colonia, Uruguay

Soybean is the most important crop in Uruguay. Stem canker caused by *Diaporthe caulivora* is one of the most yield limiting diseases, causing up to 24% yield losses. Management of this disease has been done mainly by breeding for resistance, as fungicides applications have been very erratic. Screening for resistance to *D. caulivora* is done by cutting a superficial slant on the stem, one cm above the cotyledons at stage V2-V3 and placing a 5 mm agar-disc of 5-day old colony. Evolution of lesion length is measured up to 14 days after inoculation. Knowledge of aggressiveness is needed to be able to select the correct isolate for this test. Thus, six isolates were inoculated onto six different cultivars using the above-described methodology. The experiment was carried out in a growth chamber at 21°C, using a complete block design, with four repetitions over time, and one plant per pot as experimental unit. Results indicate that there are statistical differences in aggressiveness between isolates and that there are also differences in susceptibility between cultivars. This type of knowledge is capitalized directly by improving the screening test for stem canker in our soybean breeding program.